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Soil
Conservation
Service

Boise,
Idaho



Idaho Water Supply Outlook

March 1, 1987



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 97102
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97208
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Idaho Water Supply Outlook

and

Federal — State — Private Cooperative Snow Surveys

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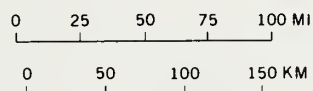
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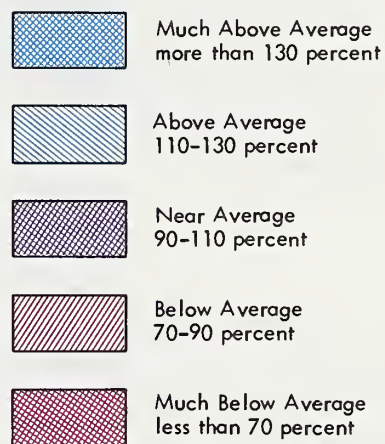
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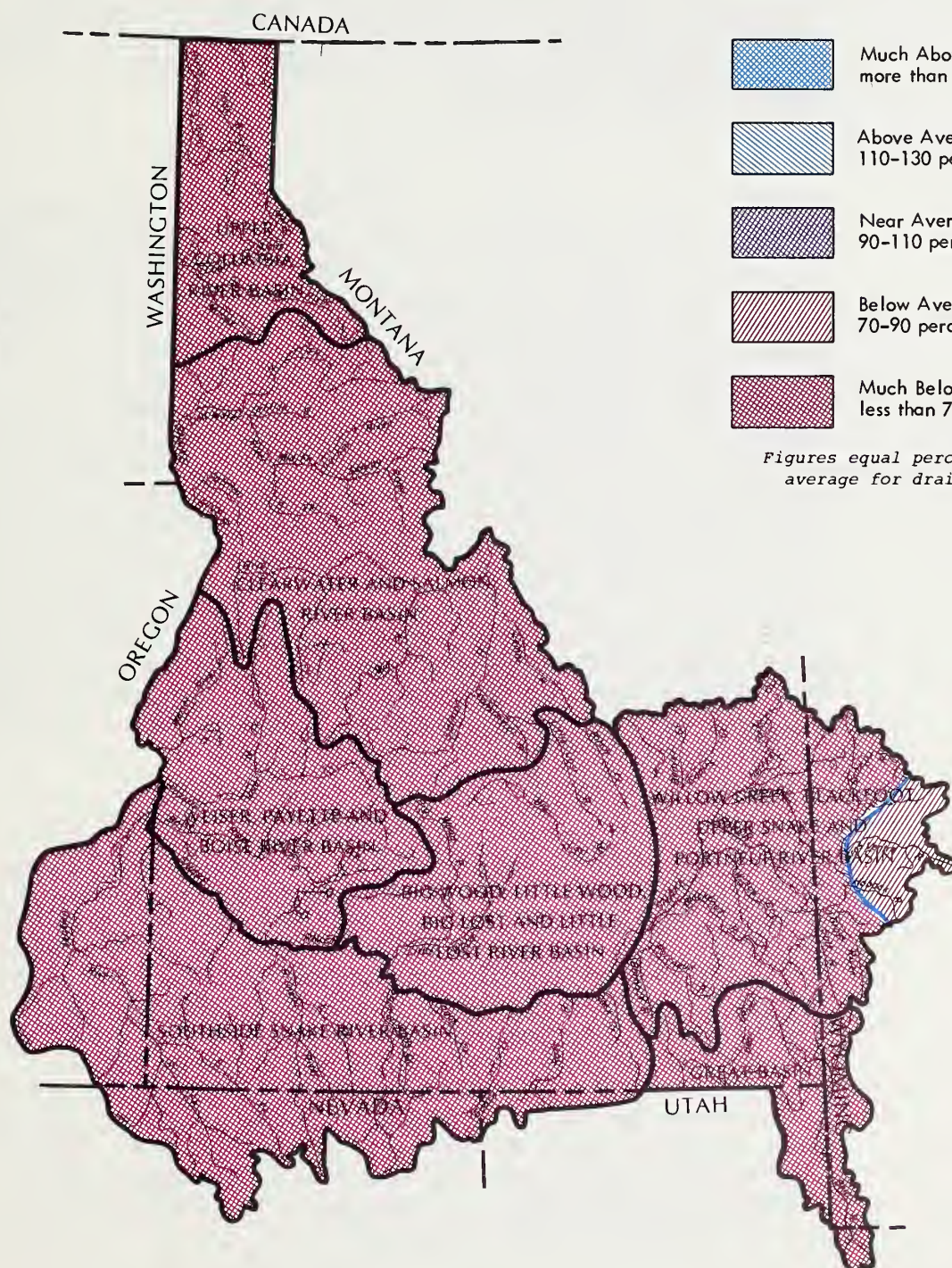
STREAMFLOW PROSPECTS IDAHO



LEGEND



*Figures equal percent of
average for drainage.*



GENERAL OUTLOOK

SUMMARY:

SNOWPACKS IN SOUTH AND CENTRAL IDAHO ARE NEAR THE SECOND LOWEST ON RECORD, ACCORDING TO MARCH 1 SNOW SURVEYS. SPRING AND SUMMER STREAMFLOW FORECASTS ARE MUCH BELOW NORMAL, AND SEVERAL MAJOR IRRIGATION RESERVOIRS ARE NOT EXPECTED TO FILL. SEE THE BACK PAGE OF THIS BULLETIN FOR SUGGESTED WATER CONSERVATION PRACTICES.

SNOWPACK:

March 1 snow surveys show little or no improvement in Idaho's snowpack conditions from the previous month. Although February brought more precipitation than previous months, snow accumulation remained below normal for the month and well below normal for the water year over the entire state. In north Idaho, from the Clearwater drainage north, snowpack conditions range from 65 to 78% of average. Most basins in the central part of the state report well below normal snowpacks ranging from 39 to 62% of average. Snowpacks in the extreme southern, eastern, and southeastern parts of the state range from 53 to 69% of average. Many snow courses in central Idaho report the second lowest water content on record for the first of March. Only the extreme drought year of 1977 reported lower readings. By this time of year, about 80% of the season's snowpack is on the ground. Much above average snowfall will be needed during March and early April to significantly improve the present conditions.

PRECIPITATION:

Precipitation during February was below normal across most of Idaho for the fifth consecutive month, with the average for the entire state being only 64% of normal. Southwest and southcentral Idaho, however, received above normal precipitation with Boise at 116% of average and Twin Falls at 130%. Most of the state was quite consistent, ranging between 55 and 65% of normal. On the lower end of the scale, Porthill received just 16% of its normal February precipitation, and Ashton only 35%. Temperatures were above normal across the entire state. The southeast corner was the warmest, averaging four degrees above normal. Elsewhere the range was from 1.5 to 2 degrees above normal.

RESERVOIRS:

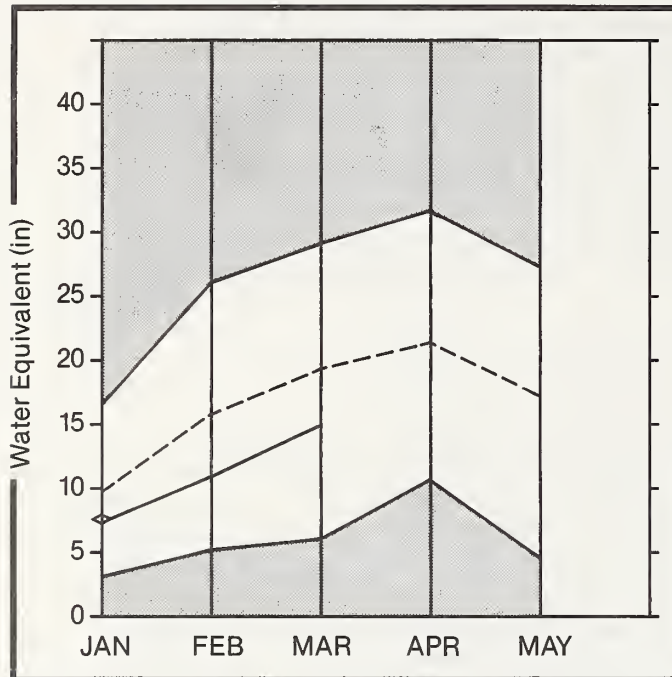
Low snowpack and runoff forecasts have prompted most reservoir operators to begin storing water earlier than normal, and many projects are now releasing minimum outflows. Twenty-four key reservoirs across the state report a combined storage of 104% of average, with most reservoirs reporting between 105% and 135% of normal. Exceptions to this are Pend Oreille Lake, Coeur d'Alene Lake, and Lucky Peak Reservoir which report only 18, 56, and 66% of normal, respectively. Salmon Falls Creek Reservoir on the other hand, reports contents of 176% of normal. With the deficient snowpack and the probability of early irrigation withdrawals, several reservoir systems including Lucky Peak, Arrowrock, Anderson Ranch and Owyhee are not expected to fill this spring.

STREAMFLOW:

The fifth consecutive month of below normal precipitation has once again reduced streamflow forecasts from those reported a month ago. Forecasts generally range from 60 to 70% of normal in northern Idaho, 25 to 60% in central Idaho, 60 to 70% in the east, and 40 to 60% across the southern edge of the state. The Big Lost River at Howell Ranch is now forecasted to yield record low streamflow for the April-September period, slightly lower than the 1977 drought year. Most other streams in the Wood and Lost river basins are expected to yield the second lowest volume on record. Elsewhere in the state, the Portneuf at Topaz and Oakley Reservoir inflow are also expected to yield the second lowest volume on record. With snowmelt already beginning at low and middle elevations, water users can expect low peak streamflows along with earlier than normal recession to baseflow conditions.

Upper Columbia Basin

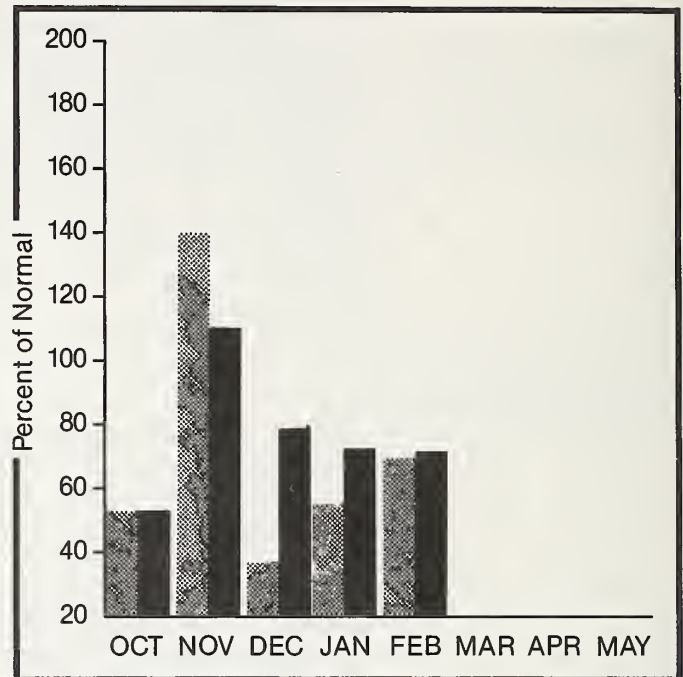
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

In comparison to normal, snow measurements taken near March 1 show little or no change from the figures reported a month ago. Basin snowpack figures range from 67% of average on the St. Joe River to 78% on the Priest River drainage. April-July streamflows are forecasted to range from 58% of normal on the Spokane at Post Falls to 70% on the inflow to Pend Oreille Lake. Carryover storage remains below to well below average on the three major lakes in the basin, ranging from only 18% of average on Lake Pend Oreille to 95% on Priest Lake. An intense Pacific storm system moved through the Idaho Panhandle immediately after the March 1 surveys were conducted, depositing up to seven inches of water content to the snowpack. Warm temperatures accompanying this storm caused some snowmelt at low to middle elevations. This storm, along with normal precipitation for the remainder of March, should improve the outlook for April 1.

UPPER COLUMBIA RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
KOOTENAI at Leona 2	APR-SEP	8441.0	7010.0	83	8698.0	103	5322.0	63
	APR-JUL	7340.0	6100.0	83	7568.0	103	4632.0	63
	APR-JUN	5899.0	4890.0	83	6070.0	103	3710.0	63
CLARK FORK at White Horse Rapids 2	APR-SEP	13370.0	9790.0	73	12865.0	96	6715.0	50
	APR-JUL	12150.0	8870.0	73	11665.0	96	6076.0	50
	APR-JUN	10360.0	7560.0	73	9943.0	96	5177.0	50
PEND OREILLE LAKE inflow 2	APR-SEP	14930.0	10500.0	70	13785.0	92	7215.0	48
	APR-JUL	13650.0	9610.0	70	12613.0	92	6607.0	48
	APR-JUN	11780.0	8250.0	70	10842.0	92	5658.0	48
PRIEST RIVER at Priest 2	APR-SEP	893.0	605.0	68	837.0	94	373.0	42
	APR-JUL	838.0	565.0	67	783.0	93	347.0	41
SPOKANE at Post Falls 2	APR-SEP	2820.0	1650.0	59	2693.0	95	607.0	22
	APR-JUL	2723.0	1590.0	58	2598.0	95	582.0	21
ST. JOE at Calder	APR-SEP	1281.0	820.0	64	1127.0	88	513.0	40
	APR-JUL	1211.0	775.0	64	1066.0	88	484.0	40
COEUR D' ALENE at Enaville	APR-SEP	830.0	525.0	63	899.0	108	152.0	18
	APR-JUL	789.0	495.0	63	850.0	108	140.0	18

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
HUNGRY HORSE	3451.0	2295.0	2281.0	2270.0	Kootenai ab Bonners Ferry	55	93	75
FLATHEAD LAKE	1791.0	635.1	812.5	909.0	Pend Oreille River	162	80	68
PEND OREILLE	1561.2	150.7	755.6	831.8	Clark Fork River	111	75	65
NOXON RAPIDS	335.0	291.7	322.8	298.0	Priest River	5	109	77
COEUR D' ALENE	291.2	123.2	125.4	220.9	Rathdrum Creek	3	87	78
PRIEST LAKE	97.7	32.8	33.3	34.4	Hayden Lake	4	83	70
					Coeur d'Alene River	10	89	70
					St. Joe River	5	91	67
					Spokane River	19	89	69
					Palouse River	3	67	79

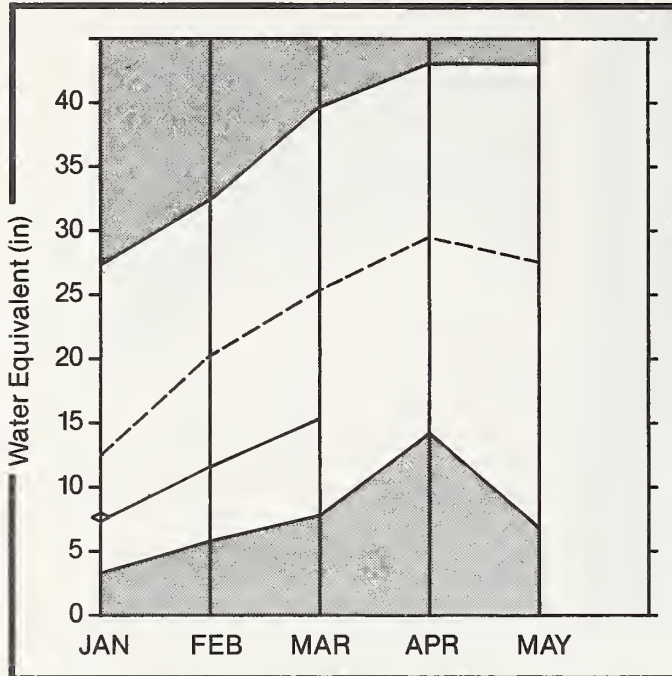
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

Clearwater and Salmon River Basin

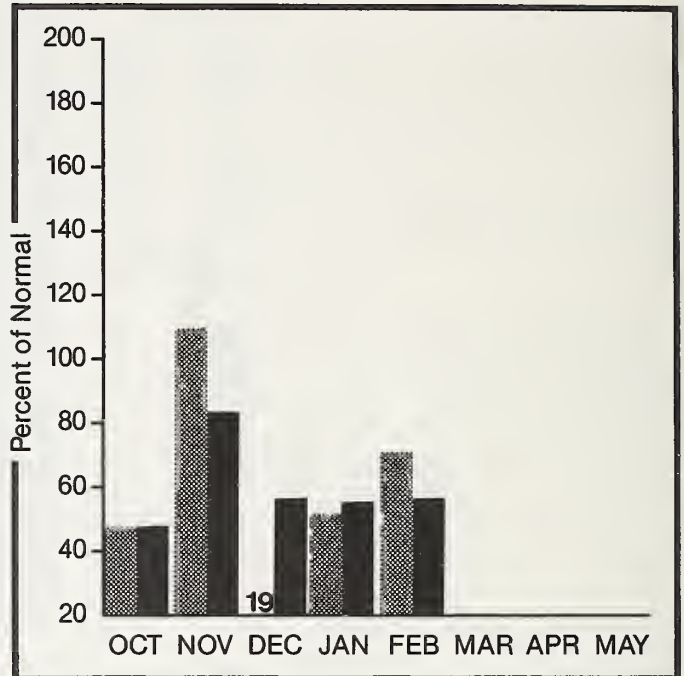
Mountain snowpack* (inches)



*Based on selected stations

Maximum Average
Minimum Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack conditions remain below to well below normal through out the basin ranging from 57% of average on the Salmon above Salmon to 78% on the Lemhi River drainage. April-July streamflows are forecast to range from 56% of average on the Salmon at Whitebird to 64% for Dworshak Reservoir inflow. Carryover storage in Dworshak Reservoir is good at 120% of average for March 1.

For more information contact your local Soil Conservation Service office.

CLEARWATER AND SALMON RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
CLEARWATER at Orofino	APR-SEP	5163.0	3170.0	61	4771.0	92	1450.0	28
	APR-JUL	4889.0	3000.0	61	4516.0	92	1370.0	28
CLEARWATER at Spalding	APR-SEP	8378.0	5280.0	63	7710.0	92	2680.0	32
	APR-JUL	7916.0	4990.0	63	7280.0	92	2530.0	32
DWORSHAK RESERVOIR inflow	APR-SEP	3010.0	1956.0	65	2890.0	96	903.0	30
	APR-JUL	2822.0	1810.0	64	2710.0	96	847.0	30
SALMON at Whitebird	APR-SEP	7007.0	3890.0	56	5750.0	82	1858.0	27
	APR-JUL	6322.0	3510.0	56	5180.0	82	1577.0	27
SALMON at Salmon	APR-SEP	1077.0	645.0	60	1020.0	96	236.0	22
	APR-JUL	919.0	550.0	60	882.0	96	201.0	22

RESERVOIR STORAGE					(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
DWORSHAK	3467.8	2492.0	2395.9	2084.1	North Fork Clearwater	13	80	66	
					Lochsa River	4	73	65	
					Salway River	3	80	71	
					Clearwater River	17	78	66	
					Salmon River ab Salmon	12	46	57	
					Lemhi River	7	62	78	
					Salmon River Total	32	54	60	

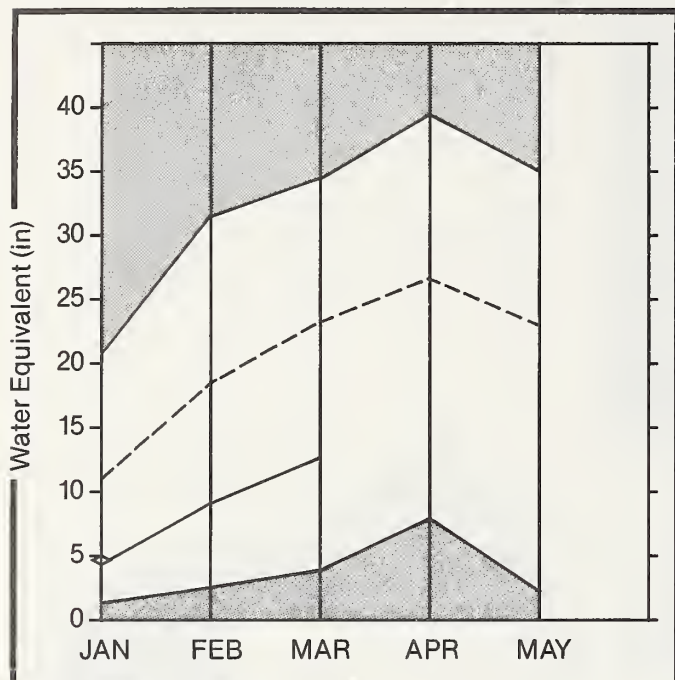
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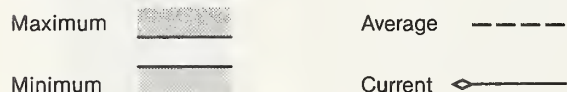
The average is computed for the 1961-85 base period.

Weiser, Payette, and Boise River Basin

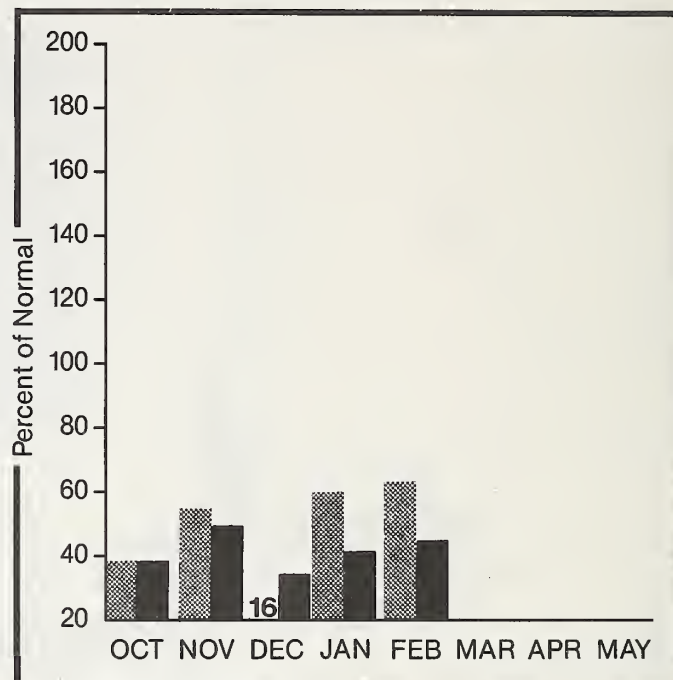
Mountain snowpack* (inches)



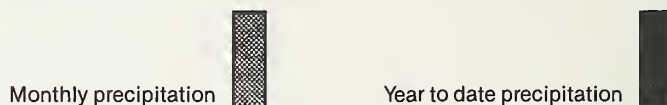
*Based on selected stations



Precipitation* (percent of normal)



*Based on selected stations



WATER SUPPLY OUTLOOK:

Snowpack conditions for March 1 remain very low, ranging from 47% of normal on the S. Fork of the Boise River to 62% on the N. Fork of the Payette. Most higher elevation sites on the Boise River drainage are now reporting the second lowest snow water content on record. Only the extremely low snowpack year of 1977 showed lower water content readings. April-July streamflow forecasts are well below normal, ranging from 41% of average on the Boise River nr. Boise to 50% on the Weiser and North Fork Payette rivers. Carryover storage is near or above normal on all major reservoirs except Lucky Peak which is reported at 66% of normal and 27% of capacity. If the present trend continues, the Boise reservoir system is not expected to fill and irrigation water will be in short supply.

For more information contact your local Soil Conservation Service office.

WEISER, PAYETTE AND BOISE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
WEISER nr Weiser	APR-SEP	444.0	222.0	50	440.0	99	111.0	25
	APR-JUL	414.0	207.0	50	410.0	99	104.0	25
PAYETTE nr Horseshoe 2	APR-SEP	1862.0	856.0	46	1247.0	67	372.0	20
	APR-JUL	1717.0	790.0	46	1151.0	67	343.0	20
NF PAYETTE at Cascade 2	APR-SEP	568.0	284.0	50	381.0	67	148.0	26
	APR-JUL	531.0	265.0	50	355.0	67	138.0	26
NF PAYETTE nr Banks 2	APR-SEP	737.0	369.0	50	546.0	74	192.0	26
	APR-JUL	691.0	346.0	50	512.0	74	180.0	26
SF PAYETTE at Lowman	APR-SEP	516.0	240.0	47	348.0	67	132.0	26
	APR-JUL	458.0	210.0	46	306.0	67	120.0	26
DEADWOOD RESERVOIR inflow	APR-JUL	143.0	67.0	47	97.0	68	33.0	23
BOISE RIVER nr Twin Springs 1	APR-SEP	722.0	320.0	44	529.0	73	144.0	20
	APR-JUL	664.0	295.0	44	488.0	73	132.0	20
SF BOISE at Anderson Dam 1	APR-SEP	619.0	260.0	42	433.0	70	136.0	22
	APR-JUL	578.0	245.0	42	407.0	70	127.0	22
BOISE RIVER nr Boise 1	APR-SEP	1628.0	670.0	41	1158.0	71	300.0	18
	APR-JUL	1508.0	625.0	41	1077.0	71	271.0	18
	APR-JUN	1334.0	550.0	41	950.0	71	250.0	19

RESERVOIR STORAGE					WATERSHED SNOWPACK ANALYSIS				
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AUG-D	THIS YEAR AS % OF		
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE	
MANN CREEK	11.3	4.4	3.5	6.8	Mann Creek	5	71	61	
CASCADE	703.2	471.3	465.6	393.8	Weiser River	12	65	61	
DEADWOOD	162.0	91.8	84.9	84.5	North Fork Payette	10	60	62	
ANDERSON RANCH	464.2	369.7	304.1	282.1	South Fork Payette	7	47	54	
ARROWROCK	286.6	233.4	251.2	234.8	Payette River Total	16	54	58	
LUCKY PEAK	307.0	81.4	36.0	122.5	Middle & North Fork Boise	9	38	50	
LAKE LOWELL (DEER FLAT)	177.0	156.5	139.9	140.6	South Fork Boise River	11	36	47	
					Boise River Total	20	40	50	
					Canyon Creek	3	50	56	

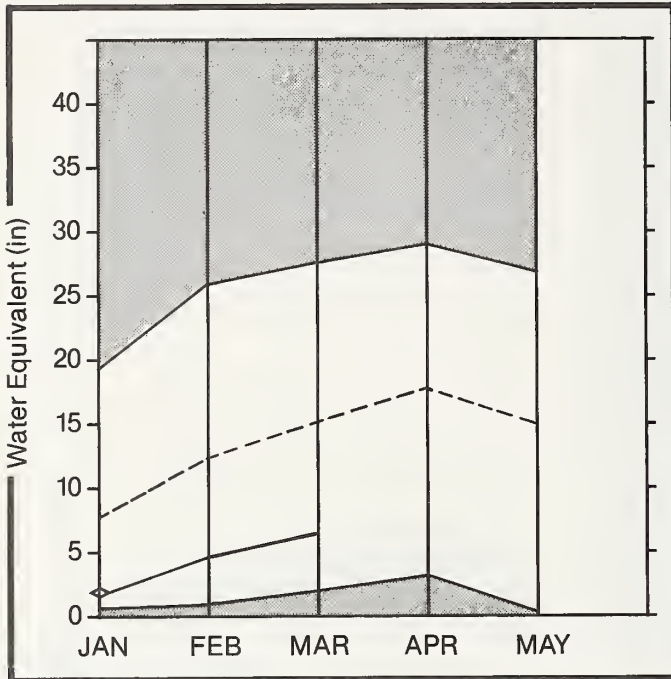
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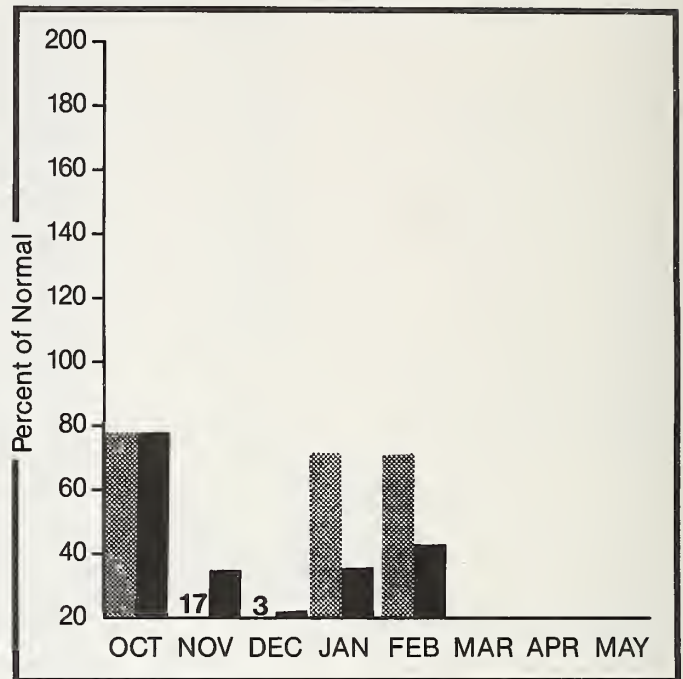
Big Wood, Little Wood, Big Lost, and Little Lost River Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum ——— Average - - - - -
Minimum = = = = Current ———

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Basin snowpacks remain extremely low throughout the basin, ranging from only 39 to 51% of average for March 1. Nearly every snow course in the basin now reports the second lowest snow water content on record. Only in the extremely low snowpack year of 1977 were lower water contents reported. April-July streamflows are forecast to be very low, ranging from 25% of average on the Little Wood near Carey to 50% on the Little Lost near Howe. The forecast for the Big Lost River is the lowest on record and most other streams in the basin are expected to produce the second lowest volume on record. Reservoir storage is currently above normal for all major reservoirs. Magic Reservoir, however, may not fill to capacity based on current runoff forecasts and anticipated irrigation demands. If present weather patterns continue, water will be in short supply for the coming irrigation season.

For more information contact your local Soil Conservation Service office.

BIG WOOD, LITTLE WOOD, BIG LOST AND LITTLE LOST RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
	PERIOD							
BIG WOOD nr Bellevue	APR-SEP	217.0	82.0	38	138.0	64	26.0	12
	APR-JUL	202.0	77.0	38	130.0	64	24.0	12
MAGIC RESERVOIR inflow	APR-SEP	338.0	93.0	28	238.0	70	34.0	10
	APR-JUL	322.0	86.0	27	224.0	70	32.0	10
LITTLE WOOD nr Carey	APR-SEP	107.0	27.0	25	59.0	55	11.0	10
	APR-JUL	99.0	25.0	25	55.0	56	10.0	10
BIG LOST at Howell Ranch	APR-SEP	219.0	96.0	44	170.0	78	39.0	18
	APR-JUL	192.0	88.0	46	153.0	80	34.0	18
	APR-JUN	148.0	67.0	45	117.0	79	27.0	18
BIG LOST nr Mackay 2	APR-SEP	195.0	86.0	44	158.0	81	39.0	20
LITTLE LOST bl Wet Ck	APR-SEP	38.8	19.0	49	33.0	85	7.0	18
	APR-JUL	31.4	15.5	49	27.0	86	6.0	19
LITTLE LOST nr Howe	APR-SEP	44.0	22.0	50	37.0	84	8.0	18
	APR-JUL	33.0	16.5	50	28.0	85	6.0	18

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE / CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
MAGIC	191.5	119.7	93.4	102.4	Big Wood ab Magic	10	33	44
LITTLE WOOD	30.0	23.6	21.6	17.6	Camas Creek	6	39	49
CAREY VALLEY	14.4	7.0	6.4	---	Big Wood Total	15	35	46
MACKAY	44.4	35.9	25.3	32.6	Little Wood River	4	29	39
					Fish Creek	3	27	41
					Big Lost River	9	35	47
					Little Lost River	4	43	51

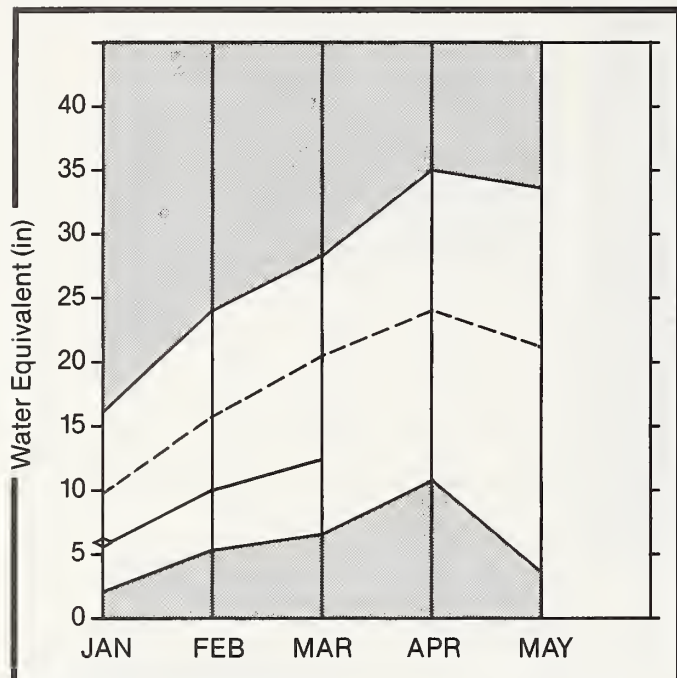
1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

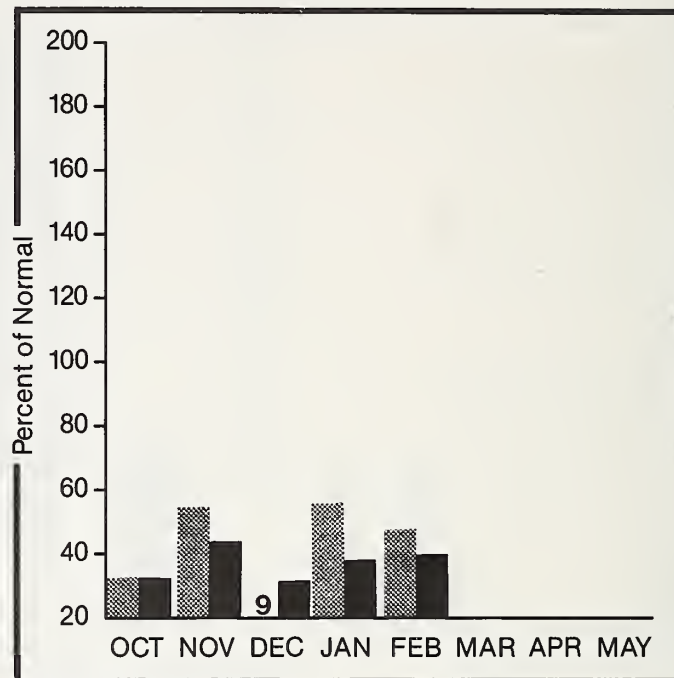
Willow Creek, Blackfoot, Upper Snake, and Portneuf River Basin

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum ——— Average - - - - -
Minimum ——— Current ◊ ———

Monthly precipitation [hatched bar] Year to date precipitation [solid black bar]

WATER SUPPLY OUTLOOK:

March 1 snow surveys show snowpack conditions continue to be well below average throughout the basin with most watersheds reporting 55 to 70% of normal snowpacks. Two exceptions are the Beaver-Camas Creek basin near Dubois which reports only 48% of average and the Gros Ventre River drainage in Wyoming, where the snowpack is slightly below normal at 85% of average. Streamflow forecasts have been lowered slightly from those published a month ago, and now range from 58 to 68% of average. The forecast for the Portneuf at Topaz is the second lowest on record. Reservoir storage levels are near or above average in all reservoirs except Jackson Lake, which is being maintained at a low level for construction purposes. If near normal precipitation is received over the next 3 to 4 months, all major reservoirs are expected to fill and water supplies should be adequate to meet most water user needs.

For more information contact your local Soil Conservation Service office.

WILLOW CREEK, BLACKFOOT, UPPER SNAKE AND PORTNEUF RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
HENRY'S FORK nr Ashton 2	APR-SEP	746.0	460.0	62	530.0	71	385.0	52
	APR-JUL	557.0	345.0	62	395.0	71	289.0	52
HENRYS FORK nr Rexburg 2	APR-SEP	1595.0	960.0	60	1212.0	76	636.0	40
	APR-JUL	1260.0	750.0	60	958.0	76	504.0	40
FALLS RIVER nr Squirrel	APR-JUL	373.0	235.0	63	298.0	80	164.0	44
TETON RIVER ab S Leigh Ck	APR-SEP	194.0	130.0	67	157.0	81	103.0	53
	APR-JUL	145.0	97.0	67	117.0	81	77.0	53
TETON nr St. Anthony	APR-SEP	479.0	311.0	65	374.0	78	240.0	50
	APR-JUL	387.0	255.0	66	302.0	78	194.0	50
SNAKE at Moran 1	APR-SEP	888.0	605.0	68	720.0	81	462.0	52
PALISADES LAKE inflow 1	APR-SEP	3852.0	2500.0	65	3310.0	86	1580.0	41
SNAKE nr Heise 2	APR-SEP	4142.0	2720.0	66	3560.0	86	1700.0	41
	APR-JUL	3524.0	2290.0	65	3030.0	86	1444.0	41
SNAKE nr Blackfoot 2	APR-SEP	5680.0	3580.0	63	4600.0	81	2380.0	42
	APR-JUL	4589.0	2900.0	63	3720.0	81	1930.0	42
PORTNEUF at Topaz	MAR-SEP	109.0	63.0	58	93.0	85	38.0	35
	MAR-JUL	88.0	51.0	58	75.0	85	31.0	35

RESERVOIR STORAGE

(1000AF)

WATERSHED SNOWPACK ANALYSIS

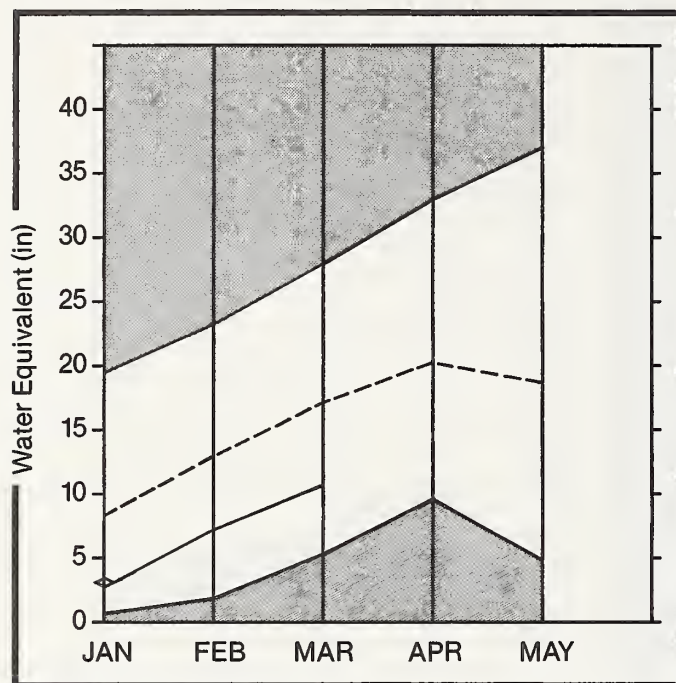
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
ISLAND PARK	127.6	123.0	96.0	110.1	Camas-Beaver Creeks	4	60	48
GRASSY LAKE	15.2	13.0	12.9	10.9	Henrys Fork River	13	49	55
JACKSON LAKE	624.4	91.0	149.4	535.9	Teton River	6	50	66
PALISADES	1357.0	1257.2	1069.9	1028.0	Snake above Palisades	29	48	66
AMERICAN FALLS	1700.0	1385.8	1103.3	1277.2	Snake above Jackson Lake	8	43	57
BROWNLEE	975.3	619.2	682.0	531.0	Gros Ventre River	3	59	85
BLACKFOOT		NO REPORT			Greys River	4	46	62
HENRY'S LAKE	90.4	75.8	---	79.4	Salt River	5	46	64
RIRIE	96.5	50.0	---	51.3	Willow Creek	10	60	71
					Blackfoot River	8	42	60
					Portneuf River	11	44	56
					Toponce Creek	3	48	55

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.





2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

Southside Snake River Basin

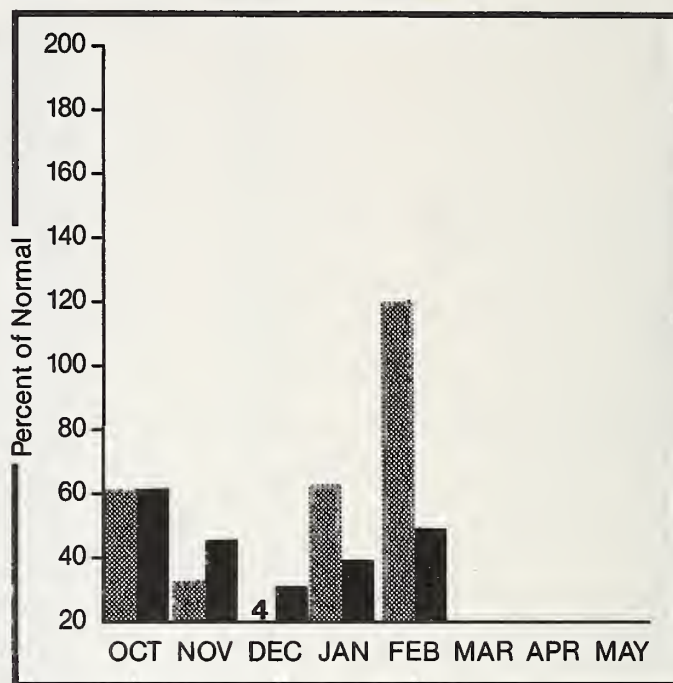
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
 Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WATER SUPPLY OUTLOOK:

Snow surveys taken near March 1 show snowpack conditions have improved slightly in comparison to normal, but remain well below average. Snowpacks now range from 54 to 62% of average except on the Owyhee drainage which reports 69% of normal snowpack. Streamflow forecasts are well below normal ranging from 43% of average for Salmon Falls Creek to 59% for the Owyhee at Rome. The forecast for the inflow to Oakley reservoir is the second lowest on record. Reservoir storage is reported to be good in all reservoirs, ranging from 103 to 176% of average for March 1. Water supplies should be adequate for most water users if near normal precipitation is received for the remainder of the season.

For more information contact your local Soil Conservation Service office.

SOUTHSIDE SNAKE RIVER BASIN

STREAMFLOW FORECASTS

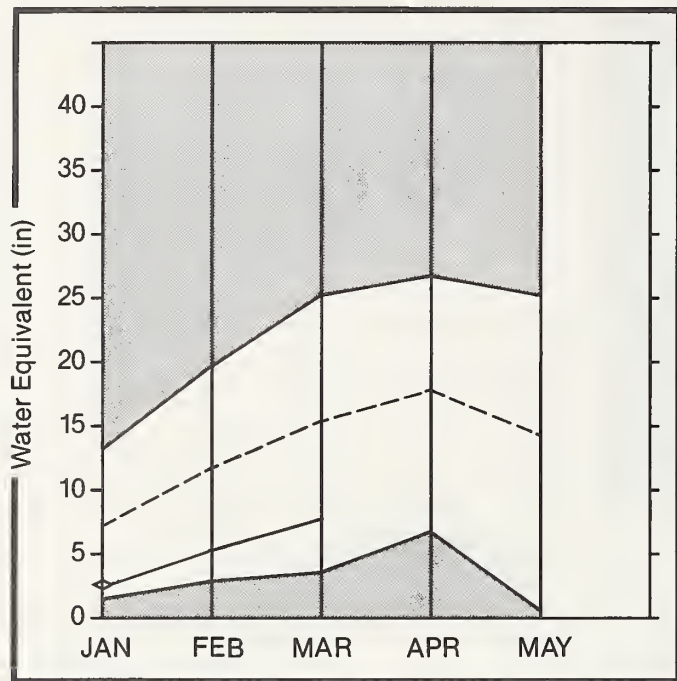
FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	PEAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
OAKLEY RESERVOIR inflow	APR-SEP APR-JUL	33.0 29.7	14.8 13.1	45 44	27.0 24.0	82 81	7.0 6.0	21 20
SALMON FALLS CK nr San Jacinto	MAR-SEP MAR-JUL MAR-JUN	102.0 97.0 91.0	44.0 42.0 40.0	43 43 44	85.0 81.0 76.0	83 84 84	20.0 19.0 18.0	20 20 20
BRUNEAU nr Hot Spring	MAR-SEP MAR-JUL	260.0 248.0	118.0 112.0	45 45	225.0 214.0	87 86	52.0 50.0	20 20
OWYHEE RIVER nr Gold Creek 2	APR-JUL	27.8	15.0	49	31.0	112	3.0	11
OWYHEE RIVER nr Owyhee 2	APR-JUL	86.0	40.0	47	86.0	100	11.0	13
OWYHEE LAKE inflow 1	APR-SEP APR-JUL	453.0 425.0	260.0 245.0	57 58	521.0 489.0	115 115	59.0 46.0	13 11
OWYHEE at Rome 2	APR-JUL	376.0	220.0	59	408.0	109	34.0	9

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE THIS YEAR	LAST YEAR	** AVG.	WATERSHED	NO. COURSES AVE'D	THIS YEAR AS % OF LAST YR. AVERAGE
OAKLEY	77.4	30.8	37.1	29.9	Raft River	8	48 62
SALMON FALLS	182.6	94.9	92.8	53.9	Goose-Trapper Creeks	5	41 54
OWYHEE	715.0	519.2	703.8	486.6	Salmon Falls Creek	12	51 61
					Bruneau River	10	48 61
					Owyhee River	16	50 69

1 - Peas, max, and reas, min, forecasts are for 5% and 95% exceedance levels and also (2) below.
 2 - Corrected for upstream diversions or changes in reservoir storage.
 The average is computed for the 1961-85 base period.

Great Basin

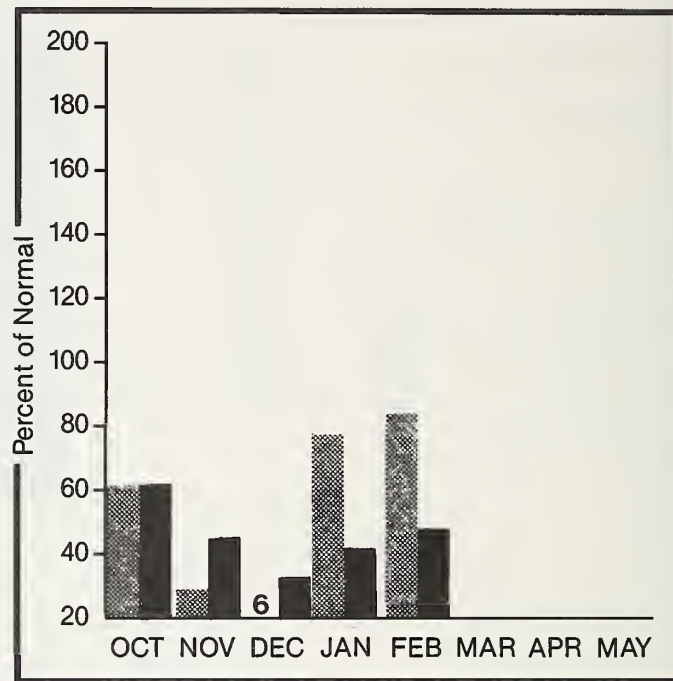
Mountain snowpack* (inches)



*Based on selected stations

Maximum ——— Average - - - -
Minimum ——— Current ◊ ———

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation [hatched bar] Year to date precipitation [solid black bar]

WATER SUPPLY OUTLOOK:

March 1 snow surveys show snowpack conditions remain well below normal throughout the basin, ranging from 41 to 63% of average. Several snow courses reported the second lowest snow water content on record for March 1. Only the extremely low snowpack year of 1977 reported lower water contents on these sites. April-September streamflows are forecast to be well below normal, ranging from 43 to 54% of average. Montpelier Creek Reservoir and Bear Lake have above normal storage for March 1 at 129 and 106% of average, respectively. Water supplies should be adequate for most water users, assuming near normal precipitation is received for the remainder of the season.

For more information contact your local Soil Conservation Service office.

GREAT BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
BEAR at Harer	APR-SEP	310.0	150.0	48	237.0	76	76.0	25
MONTPELIER CK nr Montpelier	APR-SEP	13.9	6.0	43	11.0	79	3.0	22
CUB RIVER nr Preston	APR-SEP	51.8	28.0	54	44.0	85	16.0	31
	APR-JUL	46.8	25.0	53	39.0	83	14.0	30

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
BEAR LAKE	1421.0	1051.5	1057.7	992.5	Bear River (above Harer)	11	42	63
MONTPELIER CREEK	3.9	2.2	1.8	1.7	Montpelier Creek	6	31	54
					Mink Creek	6	35	53
					Cub River	2	40	55
					Malad River	7	28	41

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.

2 - Corrected for upstream diversions or changes in reservoir storage.

The average is computed for the 1961-85 base period.

SNOW DATA MEASUREMENTS

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
UPPER COLUMBIA BASIN							WATERSHED 1						
ABOVE BURKE	4100	2/24/87	42	10.4	14.9	19.0	SAOOLE MOUNTAIN	7940	2/25/87	46	13.4	22.5	22.0
BEAR MOUNTAIN	5400	3/07/87	82	31.9	37.0	53.0	SADDLE MTN PILLOW	7900	3/01/87	---	13.2	21.5	22.6
BEAR MTN PILLOW	5400	3/01/87	---	41.5	37.3	53.8	SAVAGE PASS	6170	3/02/87	53	15.0	22.8	23.3
BENTON MEADOW	2370	2/25/87	10	2.8	6.8	6.0	SAVAGE PASS PILLOW	6170	3/01/87	---	15.2	22.8	24.6
BENTON SPRING	4920	2/25/87	39	13.3	12.1	17.2	SCHWARTZ LAKE	8540	3/01/87	38	8.5	14.4	10.5
BOYER MOUNTAIN	5250	2/26/87	51	16.4	19.1	22.3	SECESH SUMMIT	6520	2/24/87	55	16.8	32.3	30.8
BREEZY SADDLE	5010	2/25/87	61	18.1	19.2	27.7	SECESH SUMMIT PILLOW	6520	3/01/87	---	15.6	31.6	31.2
BUNCHGRASS MEADOWS	5000	2/25/87	52	17.0	17.4	26.1	SHANGHAI SUMMIT	4570	2/25/87	56	16.1	19.2	23.4
BUNCHGRASS MOWPILLOW	5000	3/01/87	---	19.4	18.8	24.2	SHANGHAI SUM PILLOW	4570	3/01/87	---	17.1	20.5	24.8
CHILCO RIDGE	3650	2/27/87	15	3.0	4.8	6.2	SHERWIN	3200	2/26/87	26	8.5	10.8	12.3
CONIE RIDGE	3900	2/27/87	18	4.2	4.7	7.4	SHERWIN PILLOW	3200	3/01/87	---	6.7	10.2	11.5
COPPER RIDGE	4820	3/02/87	59	19.6	16.8	23.8	SLAG-A-MELT LAKE	8750	3/01/87	45	11.8	22.1	22.5
CORNER CREEK	3150	2/27/87	24	6.9	8.1	6.6	SQUAW MEADOW	5900	2/24/87	61	18.8	32.5	31.4
EAST RAGGED SADDLE	3740	2/28/87	41	14.4	15.3	18.0	TWIN LAKES	6510	3/03/87	85	28.2	31.5	36.5
EAST TWIN	4130	2/27/87	24	7.3	12.0	9.9	TWIN LAKES PILLOW	6400	3/01/87	---	25.0	28.4	36.9
FORTY-NINE MEADOWS	4830	2/25/87	56	17.1	18.5	26.3	TWIN PEAKS	9190	2/27/87	48	12.2	20.0	21.0
FOURTH OF JULY SUM	3200	2/24/87	30	6.2	8.8	8.2	VIENNA MINE	8960	2/28/87	56	15.0	45.0	31.2
HUMBOLDT GULCH	4250	2/24/87	33	8.5	11.7	14.2	VIENNA MINE PILLOW	8960	3/01/87	---	14.7	38.8	31.1
HUMBOLDT GLCH PILLOW	4250	3/01/87	---	8.4	9.0	13.2	WEST BRANCH	5560	3/02/87	42	14.2	21.2	22.9
KELLOGG PEAK	5560	2/26/87	51	16.9	17.9	27.3	WEST BRANCH PILLOW	5560	3/01/87	---	13.5	21.9	23.0
LOOKOUT	5140	2/24/87	63	20.5	25.6	29.5							
LOOKOUT PILLOW	5140	3/01/87	---	20.7	24.2	28.4							
LOST LAKE	6110	2/25/87	97	33.1	40.9	48.9							
LOST LAKE PILLOW	6110	3/01/87	---	41.8	41.6	55.0							
LOWER SANOS CREEK	3120	3/04/87	41	14.2	15.8	16.8							
MOSCOW MOUNTAIN	4410	2/27/87	39	12.3	17.6	14.9							
MOSQUITO RIDGE	5200	2/26/87	72	22.9	25.3	33.7							
MOSQUITO PILLOW	5200	3/01/87	---	22.8	21.0	34.0							
RAGGED RIDGE	3330	2/28/87	21	5.6	4.3	--							
ROLAND SUMMIT	5120	2/26/87	70	22.3	19.6	32.8							
SAGE CREEK SADDLE	4080	2/27/87	38	11.2	12.9	16.1							
SCHWEITZER BASIN	6090	2/27/87	84	30.9	28.4	40.4							
SCHWEITZER BN PILLOW	6090	3/01/87	---	33.4	31.4	42.4							
SCHWEITZER BOWL	4800	2/27/87	56	18.5	15.2	27.2							
SCHWEITZER RIDGE	6200	2/27/87	90	34.7	29.7	40.1							
SHERWIN	3200	2/26/87	26	8.5	10.8	12.3							
SHERWIN PILLOW	3200	3/01/87	---	6.7	10.2	11.5							
SKITWISH RIDGE	5110	3/02/87	70	21.9	19.9	30.2							
SUNSET	5540	2/26/87	62	19.4	23.7	28.1							
SUNSET PILLOW	5540	3/01/87	---	22.6	23.3	30.8							
TWIN SPIRIT DIVIOE	3480	2/28/87	30	10.0	12.3	12.2							
WEST TWIN	4220	2/27/87	23	7.1	10.4	8.8							
CLEARWATER AND SALMON BASINS							WATERSHED 11						
ABOVE GILMORE	8200	3/03/87	28	5.6	10.2	7.8	ATLANTA SUMMIT	7600	3/01/87	52	14.1	36.6	30.2
ASPEN-HALL PASS	8200	3/03/87	28	6.7	10.7	8.5	ATLANTA SUM PILLOW	7580	3/01/87	---	14.2	35.3	27.4
BANNER SUMMIT	7040	2/28/87	47	13.5	32.0	25.8	ATLANTA TOWNSITE	5370	3/01/87	24	6.8	12.2	--
BANNER SUMMIT PILLOW	7040	3/01/87	---	12.9	30.0	23.2	BANNER SUMMIT	7040	2/28/87	47	13.5	32.0	25.8
BEAR BASIN	5350	2/27/87	41	12.8	14.6	17.6	BANNER SUMMIT PILLOW	7040	3/01/87	---	12.9	30.0	23.2
BEAR BASIN PILLOW	5350	3/01/87	---	9.6	15.1	17.6	BAD BEAR	4940	2/27/87	25	7.4	17.8	13.1
BIG CREEK SUMMIT	6580	3/01/87	---	19.9E	38.4	31.5	BEAR BASIN	5350	2/27/87	41	12.8	14.6	17.6
BIG CREEK SUM PILLOW	6580	3/01/87	---	16.9	37.5	28.0	BEAR BASIN PILLOW	5350	3/01/87	---	9.6	15.1	17.6
BORAH	6200	2/27/87	18	3.6	5.5	4.9	BEAR SADDLE	6180	3/01/87	46	13.8	21.0	27.9
BOULDER CREEK	5440	3/02/87	38	11.0	18.2	21.1	BEAR SADDLE PILLOW	6180	3/01/87	---	13.1	21.7	27.8
BREEZY SADDLE	5010	2/25/87	61	18.1	19.2	27.7	BENNETT MOUNTAIN	6560	3/01/87	32	7.8	21.6	15.2
BRUNDAGE MOUNTAIN	7560	3/01/87	---	22.1E	40.1	40.1	BENNETT MTN PILLOW	6560	3/01/87	---	9.2	--	16.4
CAYUSE AIRSTRIP	3500	2/25/87	25	6.8	10.3	11.2	BIG CREEK SUMMIT	6580	3/01/87	---	19.9E	38.4	31.5
COOL CREEK	6250	2/26/87	86	27.9	35.2	42.6	BIG CREEK SUM PILLOW	6580	3/01/87	---	16.9	37.5	28.0
COOL CREEK PILLOW	6280	3/01/87	---	28.3	34.8	40.1	BOGUS BASIN	6340	2/26/87	41	11.7	24.0	20.9
COPE'S CAMP	7520	2/26/87	24	4.7	7.8	6.5	BOGUS BASIN ROAD	5540	2/26/87	9	2.7	1.6	5.8
CRATER MEADOWS	5960	2/26/87	75	24.8	37.1	38.0	BOULDER CREEK	5440	3/02/87	38	11.0	18.2	21.1
CRATER MOWS PILLOW	5960	3/01/87	---	26.2	28.2	40.0	BRUNDAGE MOUNTAIN	7560	3/01/87	---	22.1E	41.2	40.1
CROOKED FORK	3610	3/02/87	31	7.8	12.6	11.9	BRUNDAGE RESV PILLOW	4500	3/01/87	---	13.8	--	--
DEADWOOD SUMMIT	6860	2/28/87	67	21.6	44.9	40.2	CAMAS CREEK DIVIDE	5710	3/01/87	21	5.8	11.6	10.6
DEADWOOD SUM PILLOW	6860	3/01/87	---	20.0	43.3	44.4	CHIMNEY CREEK	6400	3/01/87	27	7.4	18.7	13.9
DOUBLE SPGS PASS	8380	2/27/87	28	6.2	12.7	8.7	COUCH SUMMIT	6840	3/01/87	31	6.4	22.0	16.7
ELK BUTTE	5550	2/25/87	63	18.8	25.2	33.1	COZY COVE	5380	2/28/87	28	7.9	15.2	14.8
ELK BUTTE PILLOW	5550	3/01/87	---	22.6	27.9	37.2	COZY COVE PILLOW	5380	3/01/87	---	9.2	17.8	22.4
FISH LAKE AIRSTRIP	5650	2/25/87	77	23.6	30.3	34.7	CRAWFORD R.S.	4860	2/28/87	10	2.6	6.3	7.4
FORTY-NINE MEADOWS	4830	2/25/87	56	17.1	18.5	26.3	DEADMAN GULCH	5600	2/27/87	30	9.4	17.3	15.1
GALENA SUMMIT	8780	2/27/87	38	9.3	25.3	20.2	DEADWOOD AIRSTRIP	5360	3/01/87	---	8.2E	14.2	14.3
GALENA SUMMIT PILLOW	8780	3/01/87	---	8.6	22.7	16.2	DEADWOOD SUMMIT	6860	2/28/87	67	21.6	44.9	40.2
GIBBONS PASS	7100	2/25/87	41	11.6	19.8	20.5	DEADWOOD SUM PILLOW	6860	3/01/87	---	20.0	43.3	44.4
HEMLOCK BUTTE	5810	2/25/87	85	27.0	32.1	42.7	DOLLARHIDE SUMMIT	8420	3/01/87	39	9.3	29.7	20.9
HEMLOCK BUTTE PILLOW	5810	3/01/87	---	27.8	32.6	42.8	DOLLARHIDE SM PILLOW	8420	3/01/87	---	10.3	30.7	21.3
HODDOD BASIN	6050	2/28/87	90	31.8	40.1	43.9	GRAHAM GUARD STATION	5690	2/28/87	30	7.9	18.1	14.9
HODDOD BASIN PILLOW	6050	3/01/87	---	27.3	35.4	41.4	GRAHAM G.S. PILLOW	5690	3/01/87	---	8.0	19.2	16.8
HODDOD CREEK	5900	2/28/87	79	27.4	33.1	40.7	IDAHO CITY TOWNSITE	4000	2/27/87	8	2.6	4.0	4.5
LEATHERMAN PASS	9860	2/27/87	60	16.2	19.1	19.7	JACKSON PEAK	7070	2/28/87	45	12.6	33.9	26.8
LEHMI PASS	7480	3/02/87	29	7.2	9.6	7.7	JACKSON PEAK PILLOW	7070	3/01/87	---	13.6	35.3	25.4
LEHMI RIDGE	8100	3/02/87	30	8.2	11.0	8.7	LAKE FORK	5290	2/24/87	40	13.8	15.8	14.3
LEHMI RIDGE PILLOW	8100	3/01/87	---	6.8	10.5	9.2							
LOLO PASS	5240	3/02/87	59	16.8	21.2	26.6							

SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
816 WOOD, LITTLE WOOD, 816 LOST AND LITTLE LOST BASINS							WATERSHED IV						
BEAR CANYON	7900	2/28/87	31	6.6	20.4	15.4	JACKPINE CREEK	7350	2/26/87	42	11.6	--	19.8
BEAR CANYON PILLOW	7900	3/01/87	---	5.5	17.9	13.9	JOHNSON CREEK	6730	2/24/87	34	8.0	18.6	12.0
BENNETT MOUNTAIN	6560	3/01/87	32	7.8	21.6	15.2	KILGORE	6320	3/01/87	27	6.2	11.8	10.7
BENNETT MTN PILLOW	6560	3/01/87	---	9.2	--	16.4	LATHAM SPRINGS	7630	2/24/87	49	13.8	32.2	28.9
CANAS CREEK DIVIDE	5710	3/01/87	27	5.8	11.6	10.6	LAVA CREEK	7350	2/26/87	38	9.3	19.4	14.0
CHIMNEY CREEK	6400	3/01/87	27	7.4	18.7	13.9	LEWIS LAKE	7850	2/25/87	63	18.3	46.5	35.8
COPPER BASIN	7640	2/28/87	13	2.4	11.0	8.1	LOWER PEBBLE	5780	2/25/87	27	6.8	14.8	12.1
COUCH SUMMIT	6840	3/01/87	31	6.4	22.0	16.7	LUCKY DOG	6860	2/24/87	44	12.4	25.4	27.9
DOLLARHIOE SUMMIT	8420	3/01/87	39	9.3	29.7	20.9	MAISON PLATEAU	7750	2/27/87	44	11.9	25.2	19.3
DOLLARHIOE SM PILLOW	8420	3/01/87	---	10.3	30.7	21.3	MC RENOLDS RESERVOIR	6720	2/26/87	37	9.0	16.9	17.4
DRY FORK	7220	2/27/87	27	5.1	19.9	14.4	MINK CREEK	6410	2/26/87	35	8.3	19.3	16.0
FISHPOLE LAKE	9300	2/28/87	36	7.3	28.6	17.0	MORAN	6750	2/27/87	31	7.9	16.0	11.8
GALENA	7440	2/27/87	---	7.3E	21.1	16.6	MUD CREEK	7100	2/26/87	48	13.7	22.5	16.9
GALENA PILLOW	7440	3/01/87	---	7.8	21.1	16.4	NORTH PUTNAM	7240	2/27/87	48	13.1	26.9	25.5
GALENA NEW	7470	2/27/87	34	7.7	23.6	18.3	PACKSADOLE SPRING	8200	2/26/87	53	14.8	32.3	24.7
GALENA SUMMIT	8780	2/27/87	38	9.3	25.3	20.2	PEBBLE CREEK	6550	2/25/87	32	7.8	16.6	14.4
GALENA SUMMIT PILLOW	8780	3/01/87	---	8.6	22.7	16.2	PHILLIPS BENCH	8200	2/27/87	64	18.9	38.5	25.5
GARFIELD R.S.	6560	3/02/87	14	3.2	15.4	9.9	PHILLIPS BENCH PILL.	8200	3/01/87	---	15.9	35.2	23.7
GARFIELD R.S. PILLOW	6560	3/01/87	---	3.5	14.7	9.9	PINE CREEK PASS	6810	2/27/87	36	9.0	18.9	15.4
GRAHAM RANCH	6270	2/27/87	25	5.1	15.5	12.6	POISON MEADOWS	8500	2/28/87	57	15.4	37.0	24.9
HILTS CREEK	8000	3/02/87	25	5.7	11.5	9.4	PUTNAM	7220	2/25/87	43	10.8	23.8	18.5
HILTS CREEK PILLOW	8000	3/01/87	---	5.8	12.5	11.3	SALT RIVER SUMMIT	7700	2/25/87	35	7.0	21.4	14.1
HYNDMAN CREEK	7440	2/28/87	25	5.3	18.1	12.7	SALT RIVER PILLOW	7700	3/01/87	---	6.9	20.0	13.9
HYNDMAN PILLOW	7440	3/01/87	---	4.8	16.6	11.4	SAWTELL MOUNTAIN	8720	2/27/87	61	16.0	38.9	28.8
IRON 806	7650	2/27/87	27	4.5	16.5	12.4	SEGEWICK PEAK	7850	2/25/87	38	8.6	25.6	16.0
IRON MINE CREEK	6300	3/02/87	22	4.8	16.8	10.1	SHEEP MOUNTAIN	6570	2/26/87	29	7.2	13.3	12.0
LEA08BELT	6700	2/27/87	25	4.4	10.0	8.5	SHEEP MTN PILLOW	6570	3/01/87	---	7.9	15.9	13.8
LEATHERMAN PASS	9860	2/27/87	60	16.2	19.1	19.7	SLUG CREEK DIVIDE	7230	2/25/87	33	7.8	22.7	14.7
LITTLE CAMAS FLAT	4940	3/01/87	14	4.4	2.8	6.2	SLUG CK OVO PILLOW	7230	3/01/87	---	8.6	25.9	16.7
LOST-WOOD DIVIDE	7900	2/28/87	36	8.2	28.5	19.8	SNAKE RIVER STATION	6920	2/25/87	40	10.2	23.3	18.5
LOST-WOOD OVO PILLOW	7900	3/01/87	---	8.1	29.2	20.5	SNOW KING MTN	7660	2/25/87	41	9.4	18.4	12.9
MASCOT MINE	7780	2/28/87	21	4.1	17.3	12.9	SOMSEN RANCH	6840	2/24/87	38	8.3	18.4	12.9
MOONSHINE	7440	2/26/87	20	4.2	10.4	9.0	SOMSEN RANCH PILLOW	6800	3/01/87	---	7.3	18.0	12.4
MOONSHINE PILLOW	7440	3/01/87	---	5.3	10.7	9.4	SPRING CRK. PILLOW	9000	3/01/87	---	15.3	38.1	19.6
MOUNT BALDY	8920	2/27/87	41	10.2	21.0	18.1	STATE LINE	6660	2/27/87	35	8.9	17.9	12.7
MULDON	6320	3/02/87	13	3.2	10.3	7.4	SULPHUR PEAK	7070	2/24/87	35	8.2	19.7	14.2
SAWMILL CANYON	7000	2/26/87	22	3.8	9.5	7.0	TARGHEE PASS	6980	3/01/87	---	7.3E	9.9	12.9
SOLOIER R.S.	5740	3/01/87	17	4.3	16.0	11.6	TETON PASS W.S.	7740	2/27/87	62	17.9	31.0	22.4
SOLOIER R.S. PILLOW	4330	3/01/87	---	4.6	--	--	TEX CREEK	6650	3/01/87	---	5.3E	10.1	8.6
STICKNEY MILL	7430	2/28/87	20	3.7	11.3	8.2	THUMB DIVIDE	7980	2/25/87	36	9.2	24.5	17.5
STICKNEY MILL PILLOW	7430	3/01/87	---	3.4	9.2	1.0	TOGWOTEE PASS	9580	2/26/87	67	21.8	32.1	24.7
							TOGWOTEE PASS PILLOW	9580	3/01/87	---	17.4	27.7	21.2
							TOPNOC	6160	2/25/87	33	7.4	16.2	14.6
							TURPIN MEADOWS	6900	2/26/87	30	7.6	11.1	9.5
							TWITCHELL CANYON	6300	2/27/87	37	10.7	--	14.4
							TWO OCEAN PILLOW	9160	3/01/87	---	16.7	32.4	24.2
							VALLEY VIEW	6680	2/26/87	32	8.0	10.6	14.8
							WEBBER CREEK	6700	2/26/87	19	3.2	5.4	4.8
							WHISKEY CREEK	6800	2/27/87	40	10.4	21.6	17.7
							WHITE ELEPHANT	7710	2/27/87	42	10.5	25.7	21.5
							WHITE ELEPHANT PILL	7710	3/01/87	---	12.5	27.6	22.6
							WILHORSE DIVIDE	6490	2/26/87	37	9.5	19.8	15.0
							WILHORSE OVO PILLOW	6490	3/01/87	---	8.9	18.4	1.0
							WILLOW CREEK	8450	2/24/87	61	16.2	--	27.8
							WILLOW CRK PILLOW	8450	3/01/87	---	12.7	37.1	23.5
							WOOD CANYON DIVIDE	7450	2/24/87	37	8.9	24.2	16.4
WILLOW, BLACKFOOT, UPPER SNAKE AND PORTNEUF BASINS							WATERSHED V						
AFTON RANGER STATION	6240	2/24/87	18	4.0	4.8	4.2	SOUTHSIDE SNAKE BASIN						
ALLEN RANCH	6470	2/24/87	26	5.9	14.2	10.2	WATERSHED VI						
ARIZONA	6820	3/01/87	---	10.2E	20.4	--	ANTELOPE RIDGE	6180	2/28/87	14	4.4	11.3	6.8
ASPEN GROVE	6500	3/01/87	---	7.4E	12.0	11.0	BADGER GULCH	6660	2/27/87	26	6.0	16.0	11.3
ASTER CREEK	7750	2/25/87	51	14.7	37.4	25.4	BEAR CREEK	7800	2/28/87	43	10.7	21.8	18.2
AUSTIN BROTHERS RNCH	6400	2/24/87	22	5.2	11.5	8.6	BEAR CK SNOTEL	7800	3/01/87	---	8.9	20.3	18.1
BASE CAMP	7030	2/26/87	40	12.1	26.5	17.8	816 BEND	6700	2/25/87	18	4.2	13.2	8.0
BASE CAMP PILLOW	7030	3/01/87	---	10.8	22.7	16.2	805TETTER R.S.	7500	2/27/87	36	8.8	26.6	17.8
BEAVERDAM CREEK	6120	2/25/87	18	4.4	11.0	8.3	805TETTER RS PILLOW	7500	3/01/87	---	7.9	23.5	16.0
816 SPRINGS	6400	2/27/87	35	9.9	18.4	18.4	80Y SCOUT CAMP	7740	2/27/87	40	9.8	17.0	13.4
BIRCH CREEK	6800	2/26/87	27	7.1	13.0	10.2	CEGAR CREEK	6820	2/28/87	21	5.1	10.0	9.4
BLACK BEAR	7950	2/27/87	61	18.8	44.9	35.0	CLEAR CREEK MEADOWS	9420	2/27/87	58	13.8	24.0	19.3
BLACK CANYON	7960	2/24/87	---	14.2E	32.9	--	OEALINE	7400	3/01/87	34	10.9	19.8	19.1
BLACK MOOSE	8160	3/01/87	---	22.3E	38.3	34.9	DEALINE SOUTH	7450	3/01/87	49	16.8	32.8	21.1
BLACKROCK	8900	3/01/87	---	16.0E	--	18.7	FOX CREEK	6800	2/27/87	26	6.4	10.5	9.9
BLIND BULL SUMM AM	8650	2/28/87	54	14.6	30.2	22.6	FRY CANYON	6700	2/25/87	18	4.9	9.1	6.7
BLIND BULL PILLOW	8650	3/01/87	---	15.2	39.9	22.1	GEORGE CREEK	8840	2/27/87	54	12.4	23.2	--
BLUE LEAGE MINE	6900	3/01/87	---	6.1E	10.8	14.3	GOAT CREEK	8800	2/28/87	37	8.1	16.4	16.0
BLUE RIDGE	6780	2/26/87	41	11.4	21.6	16.9	GOLD CREEK	6600	2/25/87	10	2.5	8.7	5.2
80NE	6200	2/26/87	19	4.2	6.4	7.3	HOWELL CANYON	7980	2/27/87	54	14.6	36.5	22.9
BROCKMAN STATION	6430	2/26/87	27	7.5	10.9	9.7	HOWELL CANYON PILLOW	7980	3/01/87	---	11.1	32.7	19.0
BRYAN FLAT	6420	2/24/87	36	7.4	10.3	8.4	HUMMINGBIRD SPRINGS	8950	2/28/87	51	12.2	24.5	20.2
CAMP CREEK	6580	2/27/87	23	5.0	8.8	9.2	INDIAN GROVE	7560	2/27/87	27	5.8	14.0	11.1
CCC CAMP	7000	2/25/87	33	6.4	16.0	11.1	JACK CREEK, LOWER	6800	2/25/87	15	4.1	2.5	4.6
COTTONWOOD LAKE AM	7600	2/28/87											

SNOW DATA MEASUREMENTS (cont.)

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85

GREAT BASIN						
BURT'S-MILLER RANCH	7900	2/28/87	17	3.8	5.5	4.6
CLIFF CANYON	7200	2/25/87	16	2.9	10.0	8.7
CUB RIVER R.S.	5450	2/25/87	21	4.7	--	8.6
DANIELS CREEK	6270	2/25/87	18	3.1	8.9	5.9
DRY BASIN	7820	2/25/87	59	13.7	31.3	24.9
DRY BREAD POND	8350	2/26/87	25	5.6	24.0	16.0
DRY CREEK FLAT	6360	2/25/87	14	2.8	13.5	7.9
EMIGRANT SUMMIT	7390	2/26/87	47	11.5	36.0	21.9
EMIGRANT SUMMIT PILLOW	7390	3/01/87	---	11.4	--	25.3
EMIGRATION CANYON	6500	2/26/87	28	5.9	15.7	9.9
FRANKLIN BASIN	8020	2/25/87	48	12.0	32.3	21.7
FRANKLIN 85N PILLOW	8040	3/01/87	---	14.7	38.2	26.3
GARDEN CITY SUMMIT	7600	2/26/87	28	5.6	24.9	15.4
GIVEDUT	6860	2/25/87	30	6.2	20.9	11.0
GIVEDUT PILLOW	6840	3/01/87	---	5.0	20.7	11.8
GIVEDUT NEW	6930	2/25/87	24	4.8	18.2	9.9
HAYDEN FORK	9400	2/28/87	36	9.3	18.8	12.9
KELLEY RANGER STA.	8180	2/26/87	43	9.8	25.6	15.6
KELLEY R.S. PILLOW	8180	3/01/87	---	7.9	25.1	13.8
LIBERTY SPRING	8600	2/25/87	70	18.1	56.4	33.2
LITTLE BEAVER	6790	2/25/87	31	7.4	22.8	13.8
LOWER ELKHORN	6960	2/25/87	28	5.8	19.9	13.1
LOWER HOME CANYON	7640	2/26/87	29	6.3	21.6	12.0
MONTA CRISTO R.S.	8960	2/26/87	41	11.1	28.4	21.6
MONTPELIER CREEK	6540	3/01/87	---	3.6E	12.3	7.7
OXFORD MOUNTAIN	6800	2/25/87	22	4.2	16.3	9.7
OXFORD SPRING	6740	2/25/87	19	3.6	16.6	10.8
OXFORD SPRING PILLOW	6740	3/01/87	---	3.7	18.5	12.7
SLUG CREEK DIVIDE	7230	2/25/87	33	7.8	22.7	14.7
SLUG CK OVO PILLOW	7230	3/01/87	---	8.6	25.9	16.7
STILLWATER CAMP	8550	2/28/87	31	6.8	12.3	8.6
STRAWBERRY CREEK	5820	2/26/87	22	5.1	13.1	10.2
STRAWBERRY-MINK DVD	6720	2/25/87	38	8.8	27.7	19.0
UPPER ELKHORN	7140	2/25/87	38	7.4	20.9	16.4
UPPER HOME CANYON	8560	2/26/87	48	11.8	35.3	20.4
WILLOW FLAT	6070	2/25/87	32	8.2	--	14.3
WOOD CANYON DIVIDE	7450	2/24/87	37	8.9	24.2	16.4
WORM CREEK	6620	2/25/87	36	9.1	20.9	17.0

WATERSHED VII

OTHER INFORMATION

FARMERS AND RANCHERS FACE WATER SHORTAGE THIS YEAR

Snow surveys taken near March 1 indicate that below to well below normal flows will occur on many streams across central and southern Idaho. Study this Water Supply Outlook Report carefully for streamflow and reservoir storage figures that concern your area.

Keep in touch with your irrigation district, reservoir manager, or others who monitor and regulate water supplies for estimates of the supply available to you. You may find you'll need to change crops, reduce planted acres, adjust tillage operations, or manage your livestock differently to conserve a short water supply.

Here are some water conservation tips to help make the best use of limited water supplies:

FARMERS

The type of crops you plant may need to be adjusted. Find out whether you will have a little water all season, or more in the spring and none later on. Vary crops accordingly. For example, alfalfa, corn and sugar beets need water all season. Wheat and barley need water early in the season.

Don't plant too early. Be sure the soil is warm enough for rapid and complete seed germination.

Consider using chemicals rather than tillage to control water-using weeds.

If you decide to plant fewer acres, plant drought tolerant cover crops on unplanted fields to protect from wind erosion.

IRRIGATORS

Know your soil type. This is your guide to rate and frequency of irrigation. Know precisely how fast your soil can accept water and its total water-holding capacity. This will help you decide how much water to apply at a given time.

If you have a conservation plan for your farm, or if the soil in your area has been mapped, the Soil

Conservation Service can cross-check soil type and irrigation data and provide you with the water-holding capacity of your soil for a given crop.

Check your irrigation system carefully. Make certain ditches are cleared of water-wasting weeds or debris that slow delivery. Check sprinkler heads and nozzles for wear and leaks, pipes for tight connections, and valves for leaks.

Consider ditch lining or gated pipe. This will reduce the 10-90 percent loss which occurs in earth ditches.

DRYLAND FARMERS

Valley precipitation totals are below normal across central and southern Idaho! Soil moisture levels are below normal and good spring precip will be needed to bring moisture up to normal.

A conservation tillage system is your best protection. Leaving residues from the previous crop on the soil surface will retard runoff, increase absorption and percolation, and reduce evaporation.

Keep necessary tillage shallow. Delay spring tillage until absolutely essential to help conserve soil moisture.

Don't use turn plows or one-way discs. Use sweeps for the first necessary operation. Over-tillage will destroy residues and dry out the soil.

Use chemicals for weed control whenever possible.

RANCHERS

Consider adjusting livestock numbers to balance with the forage supply. Cull herds more than normal; sell calves and lambs early.

Determine forage needs and plan to buy needed supplements early.

Grow small grain for use as hay or pasture; it requires less water than conventional forage. Defer planting pasture, hay or range forage until a more favorable water year.

Check with the Soil Conservation Service and your local soil conservation district for details concerning your soil and water conservation problems. The next water supply forecast will be issued about April 1, 1987.

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

State	Idaho Department of Water Resources Soil and Water Conservation Districts of Idaho
Federal	U.S. Department of Agriculture Forest Service U.S. Department of Army Corps of Engineers U.S. Department of Commerce NOAA, National Weather Service U.S. Department of Interior Bureau of Reclamation Geological Survey, Water Resources Division Shoshone-Bannock Tribal Council
Local	Big Lost River Irrigation District Big Wood Irrigation Company Boise Project Board of Control Idaho Water District #01 Lewiston Orchards Irrigation District Little Wood River Irrigation District North Board of Control — Owyhee Project Salmon Falls Irrigation Company South Board of Control — Owyhee Project
Private	Cyprus Mining Company FMC Corporation Idaho Power Company Le Bois Resort Washington Water Power Company

Other organizations and individuals furnish information for the snow survey reports. Their cooperation is gratefully acknowledged.

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